

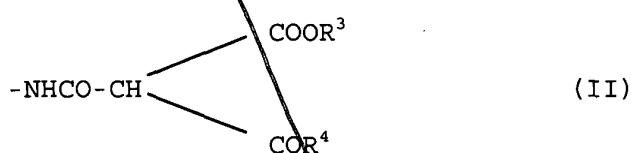
WHAT IS CLAIMED IS:

Sub A1

1 A blocked isocyanate group-containing resin
composition, comprising a resin (C) obtainable by modifying a
5 resin (A) having, in one molecule, two or more blocked
isocyanate groups represented by formula (I) or (II):



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15 (wherein R^1 , R^2 , R^3 , and R^4 , which are same or different, each
represents a substituent having 1 to 10 carbon atoms) with a
monohydric alcohol (B) represented by formula (III):



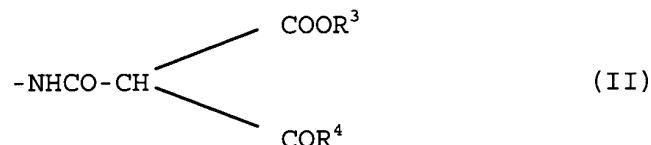
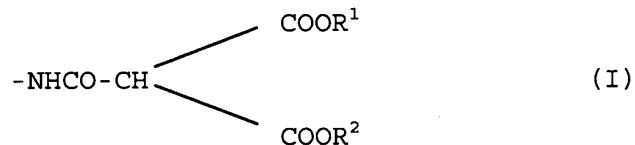
20 (wherein R^5 represents a substituent having 3 to 8 carbon
atoms), replacing at least one of the R^1 , R^2 , and R^3 with the
 R^5 ;

wherein the resin (C) has a lowered solubility
parameter as compared with the resin (A).

2. The blocked isocyanate group-containing resin
25 composition according to claim 1, wherein the resin (A) is
obtained by reacting the isocyanate groups in a
polyisocyanate compound (a) having at least two isocyanate
groups in one molecule with an active methylene compound (b).

3. The blocked isocyanate group-containing resin composition according to claim 2, wherein part of the isocyanate groups in the polyisocyanate compound (a) is 5 reacted with a monohydric alcohol.

4. The blocked isocyanate group-containing resin composition according to claim 1, wherein the resin (A) is obtainable by homopolymerizing a first vinyl monomer 10 containing a blocked isocyanate group represented by the formula (I) or (II):



15 or copolymerizing the first vinyl monomer with a second vinyl 20 monomer.

25 5. The blocked isocyanate group-containing resin composition according to claim 1, wherein the R⁵ in the monohydric alcohol (B) is a substituent having 5 to 18 carbon atoms containing no hetero atom.

6. The blocked isocyanate group-containing resin composition according to claim 1, wherein the monohydric

alcohol (B) is one or more selected from mono(or
oligo)propylene glycol monoalkyl ethers having 4 to 10 carbon
atoms, mono(or oligo)ethylene glycol monoalkyl ethers having
4 to 10 carbon atoms, and aliphatic alcohols having 4 to 10
5 carbon atoms.

7. The blocked isocyanate group-containing resin
composition according to claim 1, wherein the R⁵ in the
monohydric alcohol (B) is a group having more number of
10 carbon atoms than the number of carbon atoms of at least one
of the R¹, R², and R³ in the resin (A).

8. The blocked isocyanate group-containing resin
composition according to claim 1, wherein the amount of the
15 monohydric alcohol (B) to be used for modification of the
resin (A) is from 5 to 500 parts by weight relative to 100
parts by weight of solid content of the resin (A).

9. The blocked isocyanate group-containing resin
20 composition according to claim 1, wherein the resin (C) is
obtainable by removing part or all of the alcohol derived
from at least one selected from the R¹, R², and R³ in the
blocked isocyanate groups in the resin (A).

25 10. The blocked isocyanate group-containing resin
composition according to claim 9, wherein part or all of the
alcohol derived from at least one selected from the R¹, R²,
and R³ in the blocked isocyanate groups in the resin (A) is

removed by heating and vacuuming operation.

11. The blocked isocyanate group-containing resin composition according to claim 1, wherein the resin (C) has a 5 number-average molecular weight of 600 to 30000 and a solubility parameter value of 8.0 to 11.0.

12. A thermosetting composition comprising the blocked isocyanate group-containing resin composition 10 according to claim 1 and a polyol (D).

13. The thermosetting composition according to claim 12, wherein the polyol (D) has a number-average molecular weight of 1000 to 80000 and a hydroxyl value of 5 15 to 220 mg KOH/g.

Step A2 ~~14. The thermosetting composition according to claim 12, wherein the using ratio of the resin (C) to the polyol (D) is from 1:0.5 to 1:20 based on both components.~~

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Step A3